

Data-Loading

December 21, 2021

1 Load Data

In this File we load the raw data and convert it into JSON format.

Whilst the data was said to be in JSON format, when running it through a JSON linter, we noticed that it was not proper JSON due to the use of single quotes instead of double quotes.

To remedy this, we explored options such as replacing the single quotes with double quotes. However this led to issues where the name of a game included an apostrophe, e.g. *Assassin's Creed*.

1.1 User-items data

The dataset was downloaded from https://cseweb.ucsd.edu/~jmcauley/datasets.html#steam_data file *Version 1: User and Item Data*.

```
[ ]: import pandas as pd
import numpy as np
import ast
import json
```

```
[ ]: with open("C:
→\\Users\\pmogh\\Documents\\Python_Workspace\\Final_Project_Dataset\\ProjectData\\Part_1\\us
→json",encoding="utf-8") as player_item_file:
    lines = player_item_file.readlines()[0:10000]
```

```
[ ]: lines[0]
```

```
[ ]: '{\'user_id\': \'76561197970982479\', \'items_count\': 277, \'steam_id\':
\'76561197970982479\', \'user_url\':
\'http://steamcommunity.com/profiles/76561197970982479\', \'items\':
[\'item_id\': \'10\', \'item_name\': \'Counter-Strike\', \'playtime_forever\':
6, \'playtime_2weeks\': 0}, {\'item_id\': \'20\', \'item_name\': \'Team Fortress
Classic\', \'playtime_forever\': 0, \'playtime_2weeks\': 0}, {\'item_id\':
\'30\', \'item_name\': \'Day of Defeat\', \'playtime_forever\': 7,
\'playtime_2weeks\': 0}, {\'item_id\': \'40\', \'item_name\': \'Deathmatch
Classic\', \'playtime_forever\': 0, \'playtime_2weeks\': 0}, {\'item_id\':
\'50\', \'item_name\': \'Half-Life: Opposing Force\', \'playtime_forever\': 0,
\'playtime_2weeks\': 0}, {\'item_id\': \'60\', \'item_name\': \'Ricochet\',
\'playtime_forever\': 0, \'playtime_2weeks\': 0}, {\'item_id\': \'70\','
```

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\item_name\': \'Half-Life\', \'playtime_forever\': 0, \'playtime_2weeks\': 0},
{\item_id\': \'130\', \'item_name\': \'Half-Life: Blue Shift\',
\'playtime_forever\': 0, \'playtime_2weeks\': 0}, {\item_id\': \'300\',
\'item_name\': \'Day of Defeat: Source\', \'playtime_forever\': 4733,
\'playtime_2weeks\': 0}, {\item_id\': \'240\', \'item_name\': \'Counter-Strike:
Source\', \'playtime_forever\': 1853, \'playtime_2weeks\': 0}, {\item_id\':
\'3830\', \'item_name\': \'Psychonauts\', \'playtime_forever\': 333,
\'playtime_2weeks\': 0}, {\item_id\': \'2630\', \'item_name\': \'Call of Duty
2\', \'playtime_forever\': 75, \'playtime_2weeks\': 0}, {\item_id\': \'3900\',
\'item_name\': "Sid Meier\'s Civilization IV", \'playtime_forever\': 338,
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Civilization IV", \'playtime_forever\': 0, \'playtime_2weeks\': 0},
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\'playtime_forever\': 2, \'playtime_2weeks\': 0}, {\item_id\': \'6400\',
\'item_name\': \'Joint Task Force\', \'playtime_forever\': 286,
\'playtime_2weeks\': 0}, {\item_id\': \'6910\', \'item_name\': \'Deus Ex: Game
of the Year Edition\', \'playtime_forever\': 2685, \'playtime_2weeks\': 0},
{\item_id\': \'7670\', \'item_name\': \'BioShock\', \'playtime_forever\': 633,
\'playtime_2weeks\': 0}, {\item_id\': \'409710\', \'item_name\': \'BioShock
Remastered\', \'playtime_forever\': 0, \'playtime_2weeks\': 0}, {\item_id\':
\'220\', \'item_name\': \'Half-Life 2\', \'playtime_forever\': 696,
\'playtime_2weeks\': 0}, {\item_id\': \'320\', \'item_name\': \'Half-Life 2:
Deathmatch\', \'playtime_forever\': 0, \'playtime_2weeks\': 0}, {\item_id\':
\'340\', \'item_name\': \'Half-Life 2: Lost Coast\', \'playtime_forever\': 37,
\'playtime_2weeks\': 0}, {\item_id\': \'360\', \'item_name\': \'Half-Life
Deathmatch: Source\', \'playtime_forever\': 0, \'playtime_2weeks\': 0},
{\item_id\': \'380\', \'item_name\': \'Half-Life 2: Episode One\',
\'playtime_forever\': 168, \'playtime_2weeks\': 0}, {\item_id\': \'400\',
\'item_name\': \'Portal\', \'playtime_forever\': 173, \'playtime_2weeks\': 0},
{\item_id\': \'420\', \'item_name\': \'Half-Life 2: Episode Two\',
\'playtime_forever\': 323, \'playtime_2weeks\': 0}, {\item_id\': \'9340\',
\'item_name\': \'Company of Heroes: Opposing Fronts\', \'playtime_forever\':
692, \'playtime_2weeks\': 0}, {\item_id\': \'228200\', \'item_name\': \'Company
of Heroes (New Steam Version)\', \'playtime_forever\': 0, \'playtime_2weeks\':
0}, {\item_id\': \'11450\', \'item_name\': \'Overlord\', \'playtime_forever\':
0, \'playtime_2weeks\': 0}, {\item_id\': \'7940\', \'item_name\': \'Call of
Duty 4: Modern Warfare\', \'playtime_forever\': 1185, \'playtime_2weeks\': 0},
{\item_id\': \'4700\', \'item_name\': \'Medieval II: Total War\',
\'playtime_forever\': 477, \'playtime_2weeks\': 0}, {\item_id\': \'12900\',
\'item_name\': \'Audiosurf\', \'playtime_forever\': 115, \'playtime_2weeks\':
0}, {\item_id\': \'13250\', \'item_name\': \'Unreal Gold\',
\'playtime_forever\': 0, \'playtime_2weeks\': 0}, {\item_id\': \'16100\',
\'item_name\': \'Virtual Villagers: A New Home\', \'playtime_forever\': 0,
\'playtime_2weeks\': 0}, {\item_id\': \'15700\', \'item_name\': "Oddworld:
Abe\'s Oddysee", \'playtime_forever\': 28, \'playtime_2weeks\': 0},
{\item_id\': \'15710\', \'item_name\': "Oddworld: Abe\'s Exoddus",
\'playtime_forever\': 0, \'playtime_2weeks\': 0}, {\item_id\': \'17330\',

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\'item_name\': \'Crysis Warhead\', \'playtime_forever\': 31,
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Wars\', \'playtime_forever\': 0, \'playtime_2weeks\': 0}, {\\'item_id\':
\'22000\', \'item_name\': \'World of Goo\', \'playtime_forever\': 195,
\'playtime_2weeks\': 0}, {\\'item_id\': \'500\', \'item_name\': \'Left 4 Dead\',
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\'item_name\': \'Company of Heroes\', \'playtime_forever\': 1061,
\'playtime_2weeks\': 0}, {\\'item_id\': \'17460\', \'item_name\': \'Mass
Effect\', \'playtime_forever\': 1613, \'playtime_2weeks\': 0}, {\\'item_id\':
\'10500\', \'item_name\': \'Empire: Total War\', \'playtime_forever\': 186,
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Paradise: The Ultimate Box\', \'playtime_forever\': 0, \'playtime_2weeks\': 0},
{\\'item_id\': \'22200\', \'item_name\': \'Zeno Clash\', \'playtime_forever\':
271, \'playtime_2weeks\': 0}, {\\'item_id\': \'26800\', \'item_name\': \'Braid\',
\'playtime_forever\': 445, \'playtime_2weeks\': 0}, {\\'item_id\': \'1250\',
\'item_name\': \'Killing Floor\', \'playtime_forever\': 10006,
\'playtime_2weeks\': 0}, {\\'item_id\': \'35420\', \'item_name\': \'Killing Floor
Mod: Defence Alliance 2\', \'playtime_forever\': 0, \'playtime_2weeks\': 0},
{\\'item_id\': \'3590\', \'item_name\': \'Plants vs. Zombies: Game of the Year\',
\'playtime_forever\': 4413, \'playtime_2weeks\': 0}, {\\'item_id\': \'8880\',
\'item_name\': \'Freedom Force\', \'playtime_forever\': 0, \'playtime_2weeks\':
0}, {\\'item_id\': \'8890\', \'item_name\': \'Freedom Force vs. the 3rd Reich\',
\'playtime_forever\': 0, \'playtime_2weeks\': 0}, {\\'item_id\': \'23120\',
\'item_name\': \'Droplitz\', \'playtime_forever\': 53, \'playtime_2weeks\': 0},
{\\'item_id\': \'35700\', \'item_name\': \'Trine\', \'playtime_forever\': 199,
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Minigolf Adventures Deluxe\', \'playtime_forever\': 25, \'playtime_2weeks\': 0},
{\\'item_id\': \'35010\', \'item_name\': \'Batman: Arkham Asylum\',
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\'item_name\': \'Batman: Arkham Asylum GOTY Edition\', \'playtime_forever\': 0,
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\'playtime_forever\': 940, \'playtime_2weeks\': 0}, {\\'item_id\': \'15520\',
\'item_name\': \'AaAaA!!! - A Reckless Disregard for Gravity\',
\'playtime_forever\': 110, \'playtime_2weeks\': 0}, {\\'item_id\': \'32370\',
\'item_name\': \'STAR WARS: Knights of the Old Republic\',
\'playtime_forever\': 5, \'playtime_2weeks\': 0}, {\\'item_id\': \'37700\',
\'item_name\': \'Darkest of Days\', \'playtime_forever\': 782,
\'playtime_2weeks\': 0}, {\\'item_id\': \'6020\', \'item_name\': \'STAR WARS
Jedi Knight: Jedi Academy\', \'playtime_forever\': 77, \'playtime_2weeks\': 0},
{\\'item_id\': \'24860\', \'item_name\': \'Battlefield 2\', \'playtime_forever\':
437, \'playtime_2weeks\': 0}, {\\'item_id\': \'39530\', \'item_name\':
\'Painkiller: Black Edition\', \'playtime_forever\': 503, \'playtime_2weeks\':
0}, {\\'item_id\': \'550\', \'item_name\': \'Left 4 Dead 2\',
\'playtime_forever\': 1474, \'playtime_2weeks\': 0}, {\\'item_id\': \'223530\',
\'item_name\': \'Left 4 Dead 2 Beta\', \'playtime_forever\': 0,
\'playtime_2weeks\': 0}, {\\'item_id\': \'8980\', \'item_name\': \'Borderlands\',
\'playtime_forever\': 3061, \'playtime_2weeks\': 0}, {\\'item_id\': \'41500\',

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\'item_name\': \'Torchlight\', \'playtime_forever\': 536, \'playtime_2weeks\':
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\'playtime_forever\': 139, \'playtime_2weeks\': 0}, {\'item_id\': \'10180\',
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\'playtime_2weeks\': 0}, {\'item_id\': \'10190\', \'item_name\': \'Call of Duty:
Modern Warfare 2 - Multiplayer\', \'playtime_forever\': 1784,
\'playtime_2weeks\': 0}, {\'item_id\': \'17450\', \'item_name\': \'Dragon Age:
Origins\', \'playtime_forever\': 4431, \'playtime_2weeks\': 0}, {\'item_id\':
\'3170\', \'item_name\': "King\'s Bounty: Armored Princess",
\'playtime_forever\': 1021, \'playtime_2weeks\': 0}, {\'item_id\': \'25900\',
\'item_name\': "King\'s Bounty: The Legend", \'playtime_forever\': 1389,
\'playtime_2weeks\': 0}, {\'item_id\': \'31410\', \'item_name\': \'Zombie
Driver\', \'playtime_forever\': 95, \'playtime_2weeks\': 0}, {\'item_id\':
\'24980\', \'item_name\': \'Mass Effect 2\', \'playtime_forever\': 5001,
\'playtime_2weeks\': 0}, {\'item_id\': \'8850\', \'item_name\': \'BioShock 2\',
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\'item_name\': \'BioShock 2 Remastered\', \'playtime_forever\': 0,
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Pieces\', \'playtime_forever\': 11, \'playtime_2weeks\': 0}, {\'item_id\':
\'33230\', \'item_name\': "Assassin\'s Creed II", \'playtime_forever\': 1636,
\'playtime_2weeks\': 0}, {\'item_id\': \'20820\', \'item_name\': \'Shatter\',
\'playtime_forever\': 46, \'playtime_2weeks\': 0}, {\'item_id\': \'47700\',
\'item_name\': \'Command and Conquer 4: Tiberian Twilight\',
\'playtime_forever\': 85, \'playtime_2weeks\': 0}, {\'item_id\': \'24960\',
\'item_name\': \'Battlefield: Bad Company 2\', \'playtime_forever\': 5716,
\'playtime_2weeks\': 0}, {\'item_id\': \'43110\', \'item_name\': \'Metro 2033\',
\'playtime_forever\': 834, \'playtime_2weeks\': 0}, {\'item_id\': \'8190\',
\'item_name\': \'Just Cause 2\', \'playtime_forever\': 3083,
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Hazard\', \'playtime_forever\': 127, \'playtime_2weeks\': 0}, {\'item_id\':
\'31220\', \'item_name\': \'Sam & Max 301: The Penal Zone\',
\'playtime_forever\': 71, \'playtime_2weeks\': 0}, {\'item_id\': \'31230\',
\'item_name\': \'Sam & Max 302: The Tomb of Sammun-Mak\', \'playtime_forever\':
0, \'playtime_2weeks\': 0}, {\'item_id\': \'31240\', \'item_name\': "Sam & Max
303: They Stole Max\'s Brain!", \'playtime_forever\': 0, \'playtime_2weeks\':
0}, {\'item_id\': \'31250\', \'item_name\': \'Sam & Max 304: Beyond the Alley of
the Dolls\', \'playtime_forever\': 0, \'playtime_2weeks\': 0}, {\'item_id\':
\'31260\', \'item_name\': \'Sam & Max 305: The City that Dares not Sleep\',
\'playtime_forever\': 0, \'playtime_2weeks\': 0}, {\'item_id\': \'21090\',
\'item_name\': \'F.E.A.R.\', \'playtime_forever\': 585, \'playtime_2weeks\': 0},
{\'item_id\': \'21110\', \'item_name\': \'F.E.A.R.: Extraction Point\',
\'playtime_forever\': 146, \'playtime_2weeks\': 0}, {\'item_id\': \'21120\',
\'item_name\': \'F.E.A.R.: Perseus Mandate\', \'playtime_forever\': 0,
\'playtime_2weeks\': 0}, {\'item_id\': \'49400\', \'item_name\': \'Magic: The
Gathering - Duels of the Planeswalkers\', \'playtime_forever\': 32,
\'playtime_2weeks\': 0}, {\'item_id\': \'33910\', \'item_name\': \'Arma 2\',
\'playtime_forever\': 3, \'playtime_2weeks\': 0}, {\'item_id\': \'33930\',

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\'item_name\': \'Arma 2: Operation Arrowhead\', \'playtime_forever\': 3,
\'playtime_2weeks\': 0}, {\\'item_id\': \'219540\', \'item_name\': \'Arma 2:
Operation Arrowhead Beta (Obsolete)\', \'playtime_forever\': 0,
\'playtime_2weeks\': 0}, {\\'item_id\': \'17410\', \'item_name\': "Mirror\'s
Edge", \'playtime_forever\': 0, \'playtime_2weeks\': 0}, {\\'item_id\':
\'205790\', \'item_name\': \'Dota 2 Test\', \'playtime_forever\': 0,
\'playtime_2weeks\': 0}, {\\'item_id\': \'50130\', \'item_name\': \'Mafia II\',
\'playtime_forever\': 707, \'playtime_2weeks\': 0}, {\\'item_id\': \'62100\',
\'item_name\': \'Chime\', \'playtime_forever\': 50, \'playtime_2weeks\': 0},
{\\'item_id\': \'31280\', \'item_name\': \'Poker Night at the Inventory\',
\'playtime_forever\': 206, \'playtime_2weeks\': 0}, {\\'item_id\': \'57300\',
\'item_name\': \'Amnesia: The Dark Descent\', \'playtime_forever\': 12,
\'playtime_2weeks\': 0}, {\\'item_id\': \'21970\', \'item_name\': \'R.U.S.E\',
\'playtime_forever\': 64, \'playtime_2weeks\': 0}, {\\'item_id\': \'8930\',
\'item_name\': "Sid Meier\'s Civilization V", \'playtime_forever\': 10345,
\'playtime_2weeks\': 0}, {\\'item_id\': \'41000\', \'item_name\': \'Serious Sam
HD: The First Encounter\', \'playtime_forever\': 369, \'playtime_2weeks\': 0},
{\\'item_id\': \'41050\', \'item_name\': \'Serious Sam Classic: The First
Encounter\', \'playtime_forever\': 76, \'playtime_2weeks\': 0}, {\\'item_id\':
\'41060\', \'item_name\': \'Serious Sam Classic: The Second Encounter\',
\'playtime_forever\': 0, \'playtime_2weeks\': 0}, {\\'item_id\': \'227780\',
\'item_name\': \'Serious Sam Classics: Revolution\', \'playtime_forever\': 0,
\'playtime_2weeks\': 0}, {\\'item_id\': \'18040\', \'item_name\': \'DeathSpank\',
\'playtime_forever\': 594, \'playtime_2weeks\': 0}, {\\'item_id\': \'22380\',
\'item_name\': \'Fallout: New Vegas\', \'playtime_forever\': 43,
\'playtime_2weeks\': 0}, {\\'item_id\': \'42700\', \'item_name\': \'Call of Duty:
Black Ops\', \'playtime_forever\': 966, \'playtime_2weeks\': 0}, {\\'item_id\':
\'42710\', \'item_name\': \'Call of Duty: Black Ops - Multiplayer\',
\'playtime_forever\': 2452, \'playtime_2weeks\': 0}, {\\'item_id\': \'62000\',
\'item_name\': \'Flight Control HD\', \'playtime_forever\': 25,
\'playtime_2weeks\': 0}, {\\'item_id\': \'40800\', \'item_name\': \'Super Meat
Boy\', \'playtime_forever\': 119, \'playtime_2weeks\': 0}, {\\'item_id\':
\'9500\', \'item_name\': \'Gish\', \'playtime_forever\': 6, \'playtime_2weeks\':
0}, {\\'item_id\': \'18700\', \'item_name\': \'And Yet It Moves\',
\'playtime_forever\': 0, \'playtime_2weeks\': 0}, {\\'item_id\': \'31270\',
\'item_name\': \'Puzzle Agent\', \'playtime_forever\': 0, \'playtime_2weeks\':
0}, {\\'item_id\': \'58200\', \'item_name\': \'Jolly Rover\',
\'playtime_forever\': 0, \'playtime_2weeks\': 0}, {\\'item_id\': \'70400\',
\'item_name\': "Recettear: An Item Shop\'s Tale", \'playtime_forever\': 537,
\'playtime_2weeks\': 0}, {\\'item_id\': \'41300\', \'item_name\': \'Altitude\',
\'playtime_forever\': 50, \'playtime_2weeks\': 0}, {\\'item_id\': \'41800\',
\'item_name\': \'Gratuitous Space Battles\', \'playtime_forever\': 149,
\'playtime_2weeks\': 0}, {\\'item_id\': \'42500\', \'item_name\': \'DogFighter\',
\'playtime_forever\': 0, \'playtime_2weeks\': 0}, {\\'item_id\': \'49900\',
\'item_name\': \'Plain Sight\', \'playtime_forever\': 23, \'playtime_2weeks\':
0}, {\\'item_id\': \'55000\', \'item_name\': \'Flotilla\', \'playtime_forever\':
0, \'playtime_2weeks\': 0}, {\\'item_id\': \'34330\', \'item_name\': \'Total War:

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SHOGUN 2\, \playtime_forever\': 1538, \playtime_2weeks\': 0}, {\item_id\':
 \63200\, \item_name\': \Monday Night Combat\, \playtime_forever\': 573,
 \playtime_2weeks\': 0}, {\item_id\': \99810\, \item_name\':
 \Bulletstorm\, \playtime_forever\': 2, \playtime_2weeks\': 0}, {\item_id\':
 \620\, \item_name\': \Portal 2\, \playtime_forever\': 887,
 \playtime_2weeks\': 0}, {\item_id\': \42910\, \item_name\': \Magicka\,
 \playtime_forever\': 588, \playtime_2weeks\': 0}, {\item_id\': \15500\,
 \item_name\': \The Wonderful End of the World\, \playtime_forever\': 0,
 \playtime_2weeks\': 0}, {\item_id\': \15540\, \item_name\': \1... 2...
 3... KICK IT! (Drop That Beat Like an Ugly Baby)\, \playtime_forever\': 4,
 \playtime_2weeks\': 0}, {\item_id\': \18500\, \item_name\': \Defense Grid:
 The Awakening\, \playtime_forever\': 126, \playtime_2weeks\': 0},
 {\item_id\': \26500\, \item_name\': \Cogs\, \playtime_forever\': 0,
 \playtime_2weeks\': 0}, {\item_id\': \35460\, \item_name\': \The Ball\,
 \playtime_forever\': 0, \playtime_2weeks\': 0}, {\item_id\': \38700\,
 \item_name\': \Toki Tori\, \playtime_forever\': 0, \playtime_2weeks\': 0},
 {\item_id\': \38720\, \item_name\': \RUSH\, \playtime_forever\': 0,
 \playtime_2weeks\': 0}, {\item_id\': \63700\, \item_name\': \BIT.TRIP
 BEAT\, \playtime_forever\': 0, \playtime_2weeks\': 0}, {\item_id\': \280\,
 \item_name\': \Half-Life: Source\, \playtime_forever\': 0,
 \playtime_2weeks\': 0}, {\item_id\': \20920\, \item_name\': \The Witcher
 2: Assassins of Kings Enhanced Edition\, \playtime_forever\': 1343,
 \playtime_2weeks\': 0}, {\item_id\': \105600\, \item_name\': \Terraria\,
 \playtime_forever\': 772, \playtime_2weeks\': 0}, {\item_id\': \98200\,
 \item_name\': \Frozen Synapse\, \playtime_forever\': 9, \playtime_2weeks\':
 0}, {\item_id\': \4500\, \item_name\': \S.T.A.L.K.E.R.: Shadow of
 Chernobyl\, \playtime_forever\': 0, \playtime_2weeks\': 0}, {\item_id\':
 \4540\, \item_name\': \Titan Quest\, \playtime_forever\': 3,
 \playtime_2weeks\': 0}, {\item_id\': \4550\, \item_name\': \Titan Quest:
 Immortal Throne\, \playtime_forever\': 76, \playtime_2weeks\': 0},
 {\item_id\': \9480\, \item_name\': \Saints Row 2\, \playtime_forever\':
 0, \playtime_2weeks\': 0}, {\item_id\': \15620\, \item_name\': \Warhammer®
 40,000 : Dawn of War® II\, \playtime_forever\': 2085, \playtime_2weeks\': 0},
 {\item_id\': \20500\, \item_name\': \Red Faction: Guerrilla Steam
 Edition\, \playtime_forever\': 0, \playtime_2weeks\': 0}, {\item_id\':
 \20570\, \item_name\': \Warhammer® 40,000 : Dawn of War® II - Chaos
 Rising\, \playtime_forever\': 69, \playtime_2weeks\': 0}, {\item_id\':
 \50620\, \item_name\': \Darksiders\, \playtime_forever\': 101,
 \playtime_2weeks\': 0}, {\item_id\': \55100\, \item_name\': \Homefront\,
 \playtime_forever\': 51, \playtime_2weeks\': 0}, {\item_id\': \55140\,
 \item_name\': \MX vs. ATV Reflex\, \playtime_forever\': 0,
 \playtime_2weeks\': 0}, {\item_id\': \56400\, \item_name\': \Warhammer®
 40,000 : Dawn of War® II - Retribution\, \playtime_forever\': 678,
 \playtime_2weeks\': 0}, {\item_id\': \475150\, \item_name\': \Titan Quest
 Anniversary Edition\, \playtime_forever\': 0, \playtime_2weeks\': 0},
 {\item_id\': \96100\, \item_name\': \Defy Gravity\, \playtime_forever\':
 9, \playtime_2weeks\': 0}, {\item_id\': \35450\, \item_name\': \Rising

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Storm/Red Orchestra 2 Multiplayer\', \'playtime_forever\': 14194,
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Total 10000 lines in data , Every Line display Player Data

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 'item_name': 'The Walking Dead: Season Two',
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```

```

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```

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```



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{'item_id': '328080',
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 'playtime_forever': 2001,
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{'item_id': '340170',
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```

```

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     'playtime_forever': 1159,
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    {'item_id': '379720',
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     'playtime_forever': 793,
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    {'item_id': '273350',
     'item_name': 'Evolve Stage 2',
     'playtime_forever': 58,
     'playtime_2weeks': 0}]]}

```

```
[ ]: # Merger Line with comma & Build List
merge_data = '[' + ','.join(lines) + '']
```

```
[ ]: data_linter = ast.literal_eval(merge_data)
```

```
[ ]: # Export to JSON

with open('data.json', 'w') as j_file:
    json.dump(data_linter, j_file)
```

We now have a .json file that we can easily view as a Pandas DataFrame.

```
[ ]: data_frame = pd.DataFrame(data_linter)
data_frame.head()
```

```
[ ]:
      user_id  items_count      steam_id \
0  76561197970982479      277  76561197970982479
1           js41637      888  76561198035864385
2        evcentric      137  76561198007712555
3      Riot-Punch      328  76561197963445855
4          doctr      541  76561198002099482

      user_url \
0  http://steamcommunity.com/profiles/76561197970...
1      http://steamcommunity.com/id/js41637
2      http://steamcommunity.com/id/evcentric
3      http://steamcommunity.com/id/Riot-Punch
4      http://steamcommunity.com/id/doctr

      items
0  [{'item_id': '10', 'item_name': 'Counter-Strik...
1  [{'item_id': '10', 'item_name': 'Counter-Strik...
2  [{'item_id': '1200', 'item_name': 'Red Orchest...
3  [{'item_id': '10', 'item_name': 'Counter-Strik...
4  [{'item_id': '300', 'item_name': 'Day of Defea...
```

1.2 Items detail data

This dataset was downloaded from https://cseweb.ucsd.edu/~jmcauley/datasets.html#steam_data
file *Version 2: item metadata*

```
[ ]: # Load data

with open("C:
↪\\Users\\pmogh\\Documents\\Python_Workspace\\Final_Project_Dataset\\ProjectData\\Part_2\\st
↪json", encoding="utf-8") as game_details:
    data_game = game_details.readlines()
```

```
[ ]: # View first line
data_game[0]
```

```
[ ]: "{u'publisher': u'Kotoshiro', u'genres': [u'Action', u'Casual', u'Indie',
u'Simulation', u'Strategy'], u'app_name': u'Lost Summoner Kitty', u'title':
u'Lost Summoner Kitty', u'url':
u'http://store.steampowered.com/app/761140/Lost_Summoner_Kitty/',
u'release_date': u'2018-01-04', u'tags': [u'Strategy', u'Action', u'Indie',
u'Casual', u'Simulation'], u'discount_price': 4.49, u'reviews_url':
u'http://steamcommunity.com/app/761140/reviews/?browsefilter=mostrecent&p=1',
u'specs': [u'Single-player'], u'price': 4.99, u'early_access': False, u'id':
u'761140', u'developer': u'Kotoshiro'}\n"
```

```
[ ]: # Get number of lines
len(data_game)
```

```
[ ]: 32135
```

There are 32135 lines, each representing a different game.

```
[ ]: # evaluate the first string
data_linter = ast.literal_eval(data_game[0])
```

```
[ ]: # View the first line
data_linter
```

```
[ ]: {'publisher': 'Kotoshiro',
'genres': ['Action', 'Casual', 'Indie', 'Simulation', 'Strategy'],
'app_name': 'Lost Summoner Kitty',
'title': 'Lost Summoner Kitty',
'url': 'http://store.steampowered.com/app/761140/Lost_Summoner_Kitty/',
'release_date': '2018-01-04',
'tags': ['Strategy', 'Action', 'Indie', 'Casual', 'Simulation'],
'discount_price': 4.49,
'reviews_url':
'http://steamcommunity.com/app/761140/reviews/?browsefilter=mostrecent&p=1',
'specs': ['Single-player'],
'price': 4.99,
'early_access': False,
'id': '761140',
'developer': 'Kotoshiro'}
```

```
[ ]: merge_data = '[' + ','.join(data_game) + '']
```

```
[ ]: data_linter = ast.literal_eval(merge_data)
```

```
[ ]: with open('gamesdata.json', 'w') as game_data:
    json.dump(data_linter, game_data)
```

We now have a .json file that we can easily view as a Pandas DataFrame.

```
[ ]: data_frame = pd.DataFrame(data_linter)
data_frame.head()
```

```
[ ]:
    publisher                                genres \
0      Kotoshiro      [Action, Casual, Indie, Simulation, Strategy]
1  Making Fun, Inc.      [Free to Play, Indie, RPG, Strategy]
2    Poolians.com  [Casual, Free to Play, Indie, Simulation, Sports]
3                                     [Action, Adventure, Casual]
4                NaN                                     NaN

    app_name                                title \
0    Lost Summoner Kitty      Lost Summoner Kitty
1      Ironbound              Ironbound
2  Real Pool 3D - Poolians  Real Pool 3D - Poolians
3              2222              2222
4    Log Challenge              NaN

    url release_date \
0  http://store.steampowered.com/app/761140/Lost_... 2018-01-04
1  http://store.steampowered.com/app/643980/Ironb... 2018-01-04
2  http://store.steampowered.com/app/670290/Real_... 2017-07-24
3  http://store.steampowered.com/app/767400/2222/ 2017-12-07
4  http://store.steampowered.com/app/773570/Log_C... NaN

    tags discount_price \
0  [Strategy, Action, Indie, Casual, Simulation]      4.49
1  [Free to Play, Strategy, Indie, RPG, Card Game...  NaN
2  [Free to Play, Simulation, Sports, Casual, Ind...  NaN
3  [Action, Adventure, Casual]      0.83
4  [Action, Indie, Casual, Sports]      1.79

    reviews_url \
0  http://steamcommunity.com/app/761140/reviews/?...
1  http://steamcommunity.com/app/643980/reviews/?...
2  http://steamcommunity.com/app/670290/reviews/?...
3  http://steamcommunity.com/app/767400/reviews/?...
4  http://steamcommunity.com/app/773570/reviews/?...

    specs price \
0  [Single-player]      4.99
1  [Single-player, Multi-player, Online Multi-Pla...  Free To Play
2  [Single-player, Multi-player, Online Multi-Pla...  Free to Play
3  [Single-player]      0.99
4  [Single-player, Full controller support, HTC V...
```

	early_access	id	developer	sentiment	metascore
0	False	761140	Kotoshiro	NaN	NaN
1	False	643980	Secret Level SRL	Mostly Positive	NaN
2	False	670290	Poolians.com	Mostly Positive	NaN
3	False	767400		NaN	NaN
4	False	773570	NaN	NaN	NaN